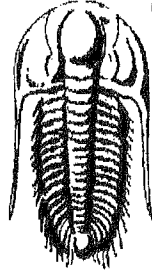


15-193-20716

14-95-33w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Kevin Davis

14 9S 33W Thomas KS

Herbel #1-14

Start Date: 2007.03.22 @ 18:18:26

End Date: 2007.03.23 @ 02:25:26

Job Ticket #: 27636 DST #: 1

**KCC
APR 24 2007
CONFIDENTIAL**

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

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KANSAS CORPORATION COMMISSION**

Printed: 2007.03.26 @ 13:03:29 Page 1

APR 25 2007

**CONSERVATION DIVISION
WICHITA, KS**

Murfin Drilling Company

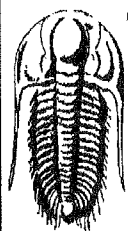
Herbel #1-14

14 9S 33W Thomas KS

DST # 1

Pawnee

2007.03.22



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Kevin Davis

Herbel #1-14

14 9S 33W Thomas KS

Job Ticket: 27636 **DST#: 1**

Test Start: 2007.03.22 @ 18:18:26

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:28:26

Time Test Ended: 02:25:26

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 4472.00 ft (KB) To 4550.00 ft (KB) (TVD)

Total Depth: 4550.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 3124.00 ft (KB)

3114.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6719 Inside

Press@RunDepth: 123.08 psig @ 4475.00 ft (KB)

Start Date: 2007.03.22

End Date: 2007.03.23

Start Time: 18:18:28

End Time: 02:25:26

Capacity: 7000.00 psig

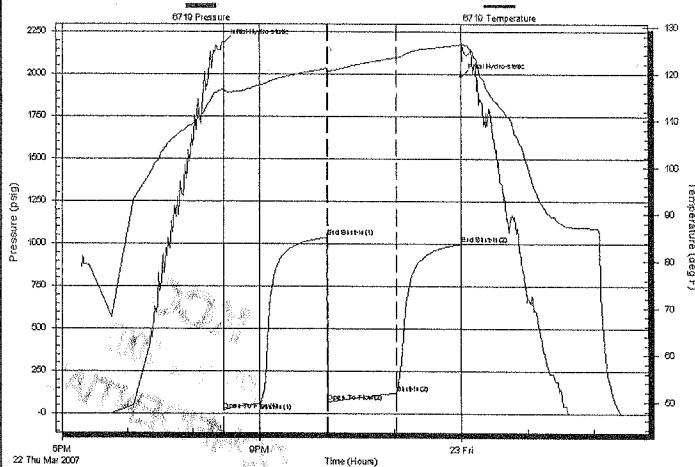
Last Calib.: 2007.03.23

Time On Btm: 2007.03.22 @ 20:28:11

Time Off Btm: 2007.03.22 @ 23:59:56

TEST COMMENT: IFP Weak Blow Built to 2-1/4 "
ISI Dead
FFP Weak Blow Built to 4 "
FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

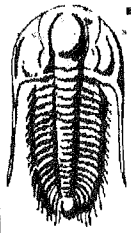
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2183.12	116.74	Initial Hydro-static
1	20.38	115.66	Open To Flow (1)
32	62.05	117.54	Shut-In(1)
92	1037.76	121.10	End Shut-In(1)
93	68.52	120.80	Open To Flow (2)
154	123.08	123.44	Shut-In(2)
212	998.91	126.23	End Shut-In(2)
212	1983.95	126.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	SOCM 10%O 90%M	0.59
90.00	VSOCWM 1%O 34%W 65%M	0.44

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company
250 N Water Ste 300
Wichita KS 67202
ATTN: Kevin Davis

Herbel #1-14
14 9S 33W Thomas KS
Job Ticket: 27636 **DST#: 1**
Test Start: 2007.03.22 @ 18:18:26

Tool Information

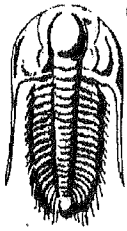
Drill Pipe:	Length: 3930.00 ft	Diameter: 3.80 inches	Volume: 55.13 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 528.00 ft	Diameter: 2.25 inches	Volume: 2.60 bbl	Weight to Pull Loose: 94000.00 lb
			<u>Total Volume: 57.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	4472.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	106.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4445.00	
Shut In Tool	5.00			4450.00	
Hydraulic tool	5.00			4455.00	
Jars	5.00			4460.00	
Safety Joint	2.00			4462.00	
Packer	5.00			4467.00	28.00 Bottom Of Top Packer
Packer	5.00			4472.00	
Stubb	1.00			4473.00	
Perforations	1.00			4474.00	
Change Over Sub	1.00			4475.00	
Recorder	0.00	6719	Inside	4475.00	
Blank Spacing	63.00			4538.00	
Change Over Sub	1.00			4539.00	
Perforations	8.00			4547.00	
Recorder	0.00	13221	Outside	4547.00	
Bullnose	3.00			4550.00	78.00 Bottom Packers & Anchor
Total Tool Length:	106.00				

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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Herbel #1-14

250 N Water Ste 300
Wichita KS 67202

14 9S 33W Thomas KS

Job Ticket: 27636

DST#: 1

ATTN: Kevin Davis

Test Start: 2007.03.22 @ 18:18:26

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	21000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1400.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	SOCM 10%O 90%M	0.590
90.00	VSOCWM 1%O 34%W 65%M	0.443

Total Length: 210.00 ft Total Volume: 1.033 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

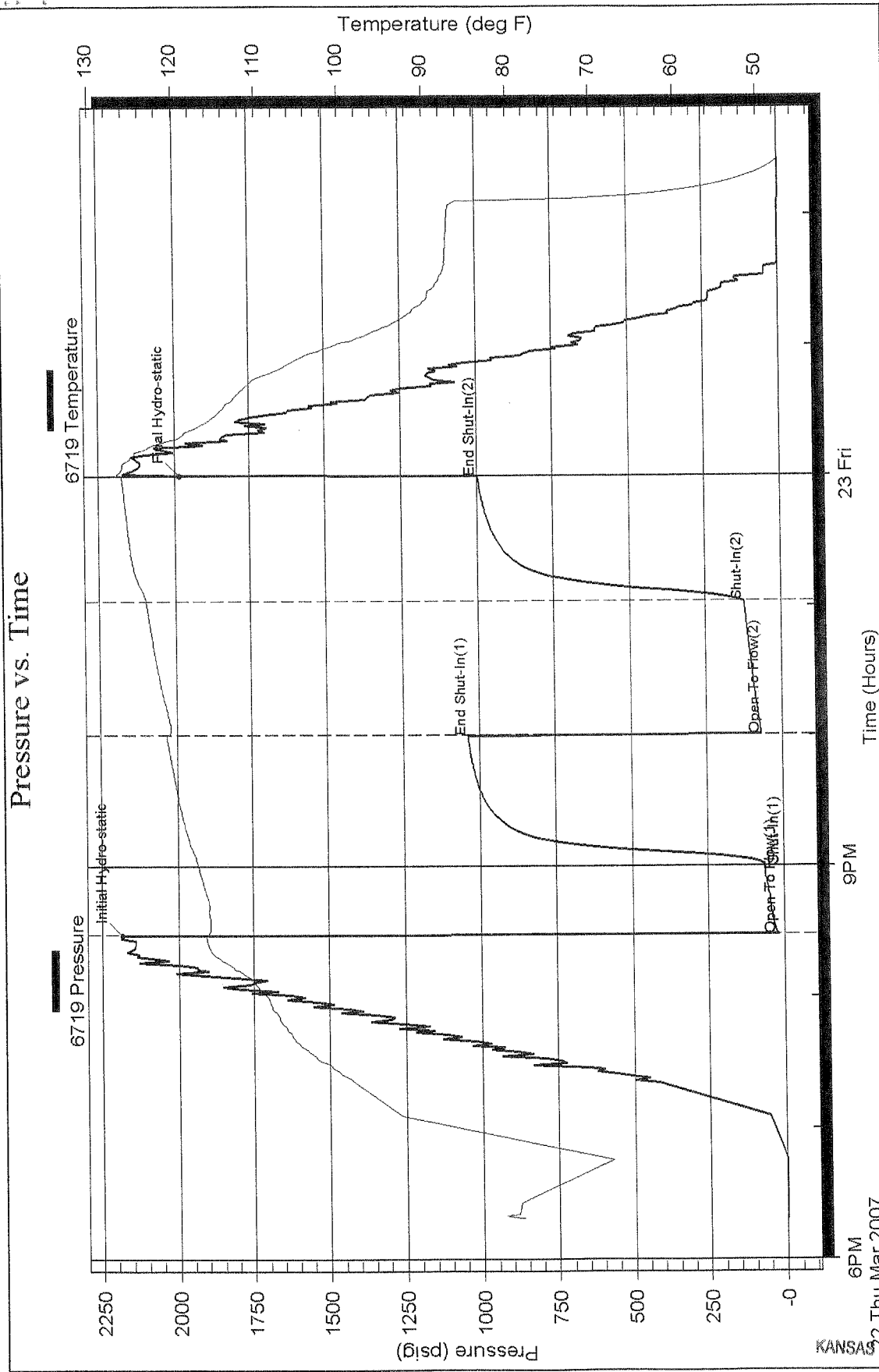
14 9S 33W Thomas KS

Murfin Drilling Company

Inside

Serial #: 6719

Pressure vs. Time



6PM
2 Thu Mar 2007
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CONSERVATION DIVISION
WICHITA, KS

Ref. No: 27636